

**STUDENT RESEARCH PRESENTATIONS**  
**AGRICULTURAL BIOTECHNOLOGY PROGRAM (ABT 395/399)**

**Thursday, December 11, 2008**  
**1:00 - 3:30 PM**

**Cameron Williams Lecture Hall – Plant Science Building**

Welcome and Introduction (Dr. Jamie Matthews)

**1:00 PM** Smoking and Periodontal Disease: Antibody Responses to Pathogens and Commensals

**Laura Hayman**

*Mentor: Dr. Jeff Ebersole, UK Center for Oral Health Research*

**1:15 PM** Effects of Prenatal Nicotine Exposure on Nicotinic Receptor Expression in Rat Brain

**Sara Cambron**

*Mentor: Dr. Jim Pauly, UK Department of Pharmaceutical Sciences*

**1:30 PM** Structural Analysis of the Polypeptide Substrate Specificity Difference between Plant Peptide Deformylase 1A and 1B.

**Amanda Hizer**

*Mentors: Drs. Robert Houtz and Lynette Dirk, UK Department of Horticulture*

**1:45 PM** Soybean-Phytophthora Interaction and the Efficacy of Glycerol as a Protective Agent

**Hilda Guerra**

*Mentor: Dr. Aarda Kachroo, UK Department of Plant Pathology*

**2:00 BREAK**

**2:15 PM** Regulation of Palmitic Acid Utilization for Triacylglycerols and Sphingolipid Synthesis

**Andrew Lavey**

*Mentor: Dr. Mariana Nikolova-Karakashian, UK Department of Physiology*

**2:30 PM** BDNF Is Required for the Normal and Enhancement of Hippocampus and Precursor Cell Proliferation

**Reega Purohit**

*Mentor: Dr. Chen Jinhui, UK Department of Neurobiology*

**2:45 PM** Expression of the Pleurotus ostreatus (oyster mushroom) Delta 9 Desaturase in *Nicotiana tabacum* and *Arabidopsis thaliana*

**Tara Burke**

*Mentor: Dr. David Hildebrand, UK Department of Plant and Soil Sciences*

**3:00 PM RECEPTION and AWARDING** (Dr. Bruce Webb) of the Glenn Collins Undergraduate Research and Presentation Award – Atrium of the Plant Science Building

*Hosted by: The Agricultural Biotechnology Program*